

What is claimed is:

1. A moving image conversion apparatus comprising:
sampling means for sampling frames from a moving image;

and

5 multimedia image generation means for generating a multimedia image in a multimedia format by compressing the frames according to a compression method considering two-dimensional redundancy.

2. The moving image conversion apparatus according to
10 Claim 1, wherein the multimedia image generation means generates the multimedia image in such a manner that the multimedia image can be displayed on a display device in accordance with a characteristic of the display device.

3. The moving image conversion apparatus according to
15 Claim 2, wherein the multimedia image generation means comprises:

size change means for enlarging or reducing the frames according to the characteristic of the display device;

frame compression means for compressing the frames by
20 the compression method considering two-dimensional redundancy so that a data size of the multimedia image can be dealt with by the display device; and

format compilation means for generating the multimedia image by compiling the frames compressed by the frame
25 compression means into the format.

4. The moving image conversion apparatus according to

Claim 3, wherein

the frame compression means repeats changing of a compression ratio of the frames and/or thinning of the frames until the data size of the multimedia image becomes the data size that can be dealt with by the display device in the case where the multimedia image does not have the data size that can be dealt with by the display device.

5. The moving image conversion apparatus according to Claim 2, wherein the display device is a mobile terminal.

10 6. A moving image transmission apparatus for sending a moving image to a terminal requesting transfer of the moving image, the moving image transmission apparatus comprising:

model judgment means for judging a model of the terminal;
and

15 moving image conversion means for converting the moving image into a multimedia image in a multimedia format in the case where the model of the terminal is not capable of moving image display but enables multimedia image display, whereby

the moving image transmission apparatus sends the
20 multimedia image instead of the moving image to the terminal.

7. The moving image transmission apparatus according to Claim 6, further comprising:

reduced-color moving image conversion means for converting the moving image into a reduced-color moving image
25 in the case where the model of the terminal can carry out neither moving image display nor multimedia image display but enables

reduced-color moving image display, whereby

the moving image transmission apparatus sends the reduced-color moving image instead of the moving image to the terminal.

5 8. The moving image transmission apparatus according to Claim 6, wherein the moving image conversion means comprises:

sampling means for sampling frames from the moving image;
and

10 multimedia image generation means for generating the multimedia image by compressing the frames according to a compression method considering two-dimensional redundancy.

9. A moving image conversion method comprising the steps of:

15 sampling frames from a moving image; and

generating a multimedia image in a multimedia format by compressing the frames according to a compression method considering two-dimensional redundancy.

10 20 10. A moving image transmission method for sending a moving image to a terminal requesting transfer of the moving image, the moving image transmission method comprising the steps of:

judging a model of the terminal;

25 converting the moving image into a multimedia image in a multimedia format in the case where the model of the terminal is not capable of moving image display but enables multimedia

image display; and

sending the multimedia image instead of the moving image to the terminal.

11. A program causing a computer to execute a moving
5 image conversion method, the program comprising the steps of:

sampling frames from a moving image; and

generating a multimedia image in a multimedia format by compressing the frames according to a compression method considering two-dimensional redundancy.

12. A program causing a computer to execute a moving
10 image transmission method for sending a moving image to a terminal requesting transfer of the moving image, the program comprising the steps of:

judging a model of the terminal;

15 converting the moving image into a multimedia image in a multimedia format in the case where the model of the terminal is not capable of moving image display but enables multimedia image display; and

20 sending the multimedia image instead of the moving image to the terminal.

13. A moving image conversion apparatus for converting a moving image comprising frames into a reduced-color moving image having a predetermined number of colors, the moving image conversion apparatus comprising:

25 reference frame generation means for generating a reference frame representing the frames;

palette data generation means for generating a palette data set including the predetermined number of colors from the reference frame;

5 frame sampling means for sampling, from the frames, reduced-color moving image generation frames to be used for generating the reduced-color moving image;

color reduction processing means for converting the reduced-color moving image generation frames into reduced-color moving image frames by using the palette data
10 set; and

frame compilation means for compiling the reduced-color moving image from the reduced-color moving image frames.

14. The moving image conversion apparatus according to Claim 13, wherein the reference frame generation means
15 generates the reference frame from all or a part of the frames comprising the moving image.

15. A moving image transmission apparatus for sending a moving image to a terminal requesting transfer of the moving image, the moving image transmission apparatus comprising:

20 model judgment means for judging a model of the terminal; and

reduced-color moving image conversion means for converting the moving image into a reduced-color moving image in the case where the model is incapable of moving image display
25 but capable of reduced-color moving image display, whereby the moving image transmission apparatus sends the

reduced-color moving image instead of the moving image to the terminal.

16. The moving image transmission apparatus according to Claim 15, wherein the reduced-color moving image conversion
5 means comprises:

reference frame generation means for generating a reference frame representing frames comprising the moving image;

palette data generation means for generating a palette
10 data set including a predetermined number of colors from the reference frame;

frame sampling means for sampling, from the frames, reduced-color moving image generation frames to be used for generating the reduced-color moving image;

15 color reduction processing means for converting the reduced-color moving image generation frames into reduced-color moving image frames according to the palette data set; and

frame compilation means for compiling the reduced-color
20 moving image from the reduced-color moving image frames.

17. A moving image conversion method for converting a
moving image comprising frames into a reduced-color moving
image having a predetermined number of colors, the moving image
conversion method comprising the steps of:

25 generating a reference frame representing the frames;
generating a palette data set including the

predetermined number of colors from the reference frame;

sampling, from the frames, reduced-color moving image generation frames to be used for generating the reduced-color moving image;

5 converting the reduced-color moving image generation frames into reduced-color moving image frames according to the palette data set; and

compiling the reduced-color moving image from the reduced-color moving image frames.

10 18. A program causing a computer to execute a moving image conversion method for converting a moving image comprising frames into a reduced-color moving image having a predetermined number of colors, the program comprising the steps of:

15 generating a reference frame representing the frames; generating a palette data set including the predetermined number of colors from the reference frame;

sampling, from the frames, reduced-color moving image generation frames to be used for generating the reduced-color moving image;

20 converting the reduced-color moving image generation frames into reduced-color moving image frames according to the palette data set; and

compiling the reduced-color moving image from the reduced-color moving image frames.

19. A moving image transmission method for sending a

moving image to a terminal requesting transfer of the moving image, the moving image transmission method comprising the steps of:

judging a model of the terminal;

5 converting the moving image into a reduced-color moving image in the case where the model is not capable of moving image display but is capable of reduced-color moving image display; and

10 sending the reduced-color moving image instead of the moving image to the terminal.

20. A program causing a computer to execute a moving image transmission method for sending a moving image to a terminal requesting transfer of the moving image, the program comprising the steps of:

15 judging a model of the terminal;

converting the moving image into a reduced-color moving image in the case where the model is not capable of moving image display but is capable of reduced-color moving image display; and

20 sending the reduced-color moving image instead of the moving image to the terminal.